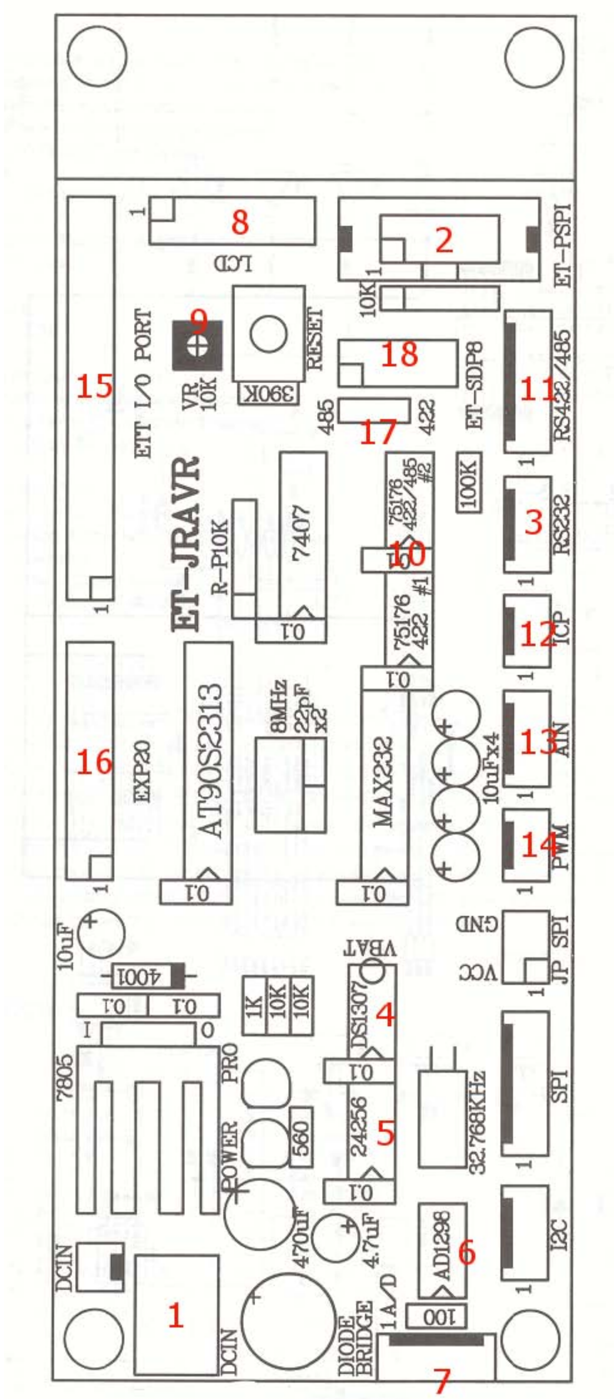
CP-jrAVR Ports Position

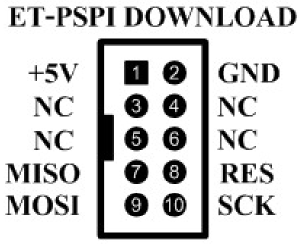


- Number 1 is Power Supply Connector

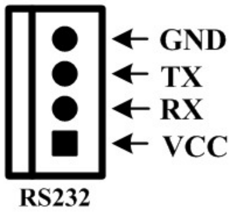
For Voltage Input : 9 – 12 VDC or 6 – 9 VAC

Current Input Available : > 800mA

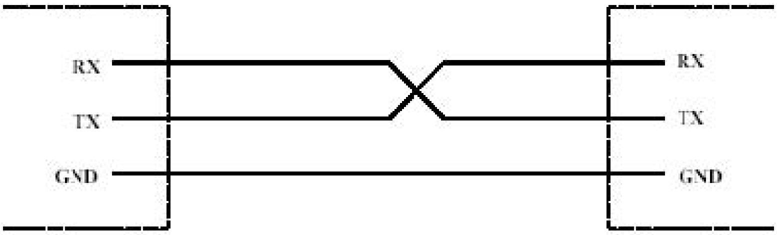
- Number 2 is In–Circuit Programmer Connector please see details in In – Circuit Programmer Section.



- Number 3 is RS-232 Connector



You can use a cable link between control board and your computer



rs232 cable diagram

- Number 4 is Socket for DS1307 Real Time Clock

The DS1307 needs a 3-Volt Battery; please insert a 3-Volt Battery to socket below PCB. See picture below.



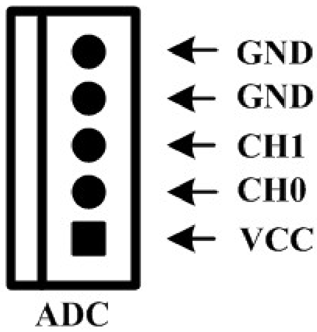
- Number 5 is Socket for 24xx Serial EEPROM

Example 24LC256 (24xx family)

- Number 6 is Socket for LTC1298 A/D Convector

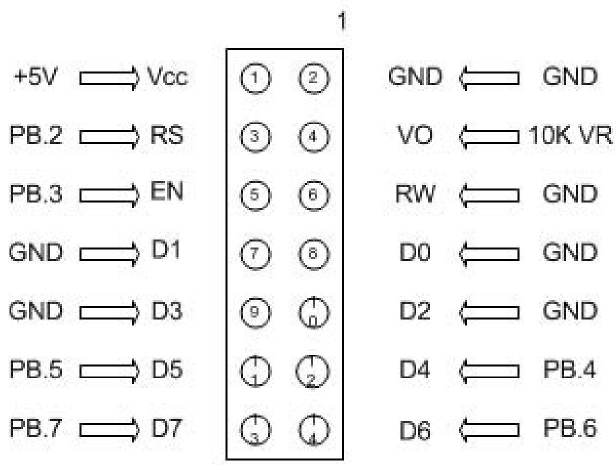
- Number 7 is ADC Connector

This ADC Connector for receive analog input.



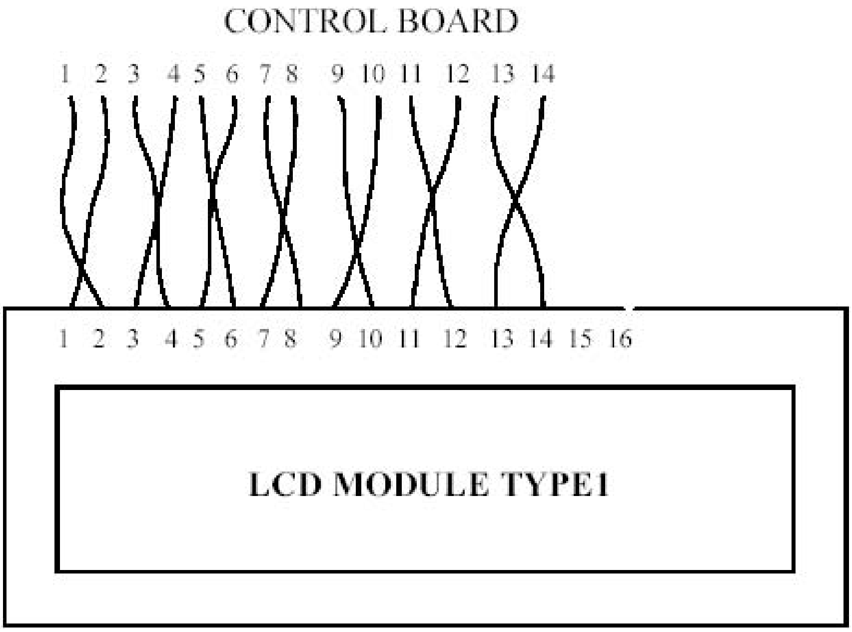
- Number 8 is LCD Module Connector

LCD Module is controlled in 4-bit mode. On the control board, use 10K VR for adjusts contrast of LCD Module.



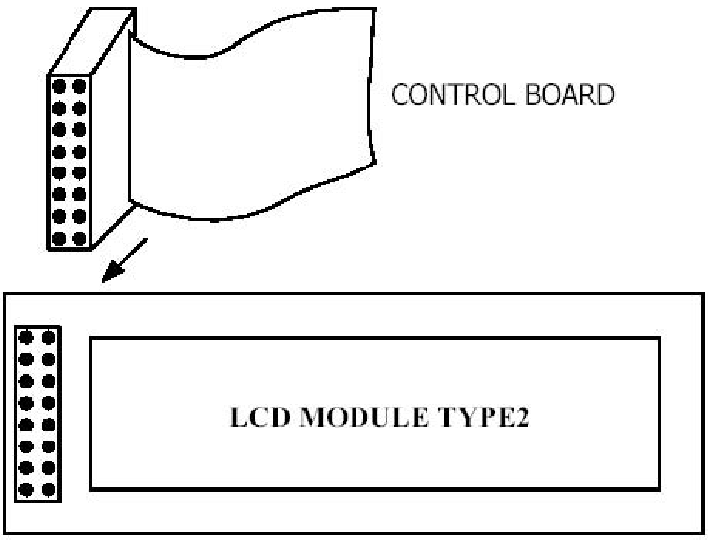
Type 1 LCD Module

If you use type 1 LCD module on control board. You must swap cable because the connector of LCD on the control board is swapped row of pin.



Type 2 LCD Module

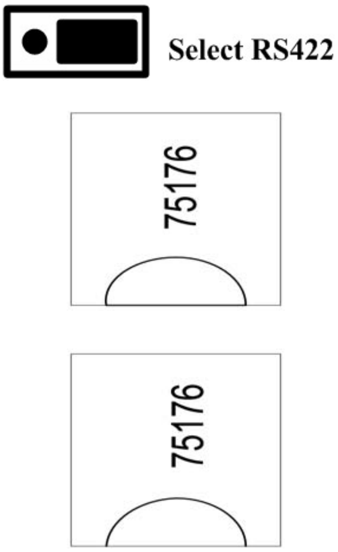
From above. he connector of LCD on the control board is swapped the row. When you use type 2 LCD module on control board. You can use Socket for connection by plug on back of LCD module.



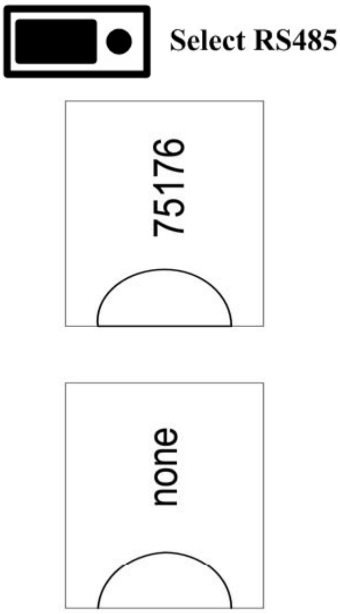
- Number 9 is 10K VR This 10K VR for adjust contrast of LCD Module.

- Number 10 is Socket for 75176 RS422/RS485 Interface
If you want to use RS422/RS485 interface, you must remove MAX232 from the MAX232's socket before insert 75176 IC to the socket number 10.

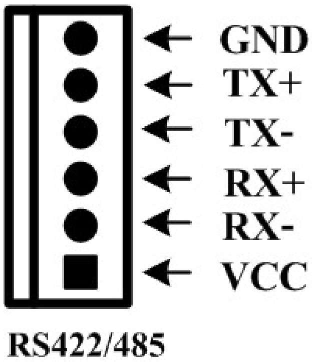
1. RS422 Interface You must insert 75176 IC to the both sockets and select jumper's number 17 in 422 position. See picture below.



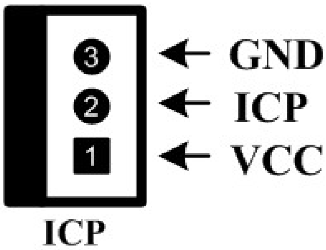
2. RS485 Interface Insert 75176 IC in the top socket and select jumper number 17 in 485 positions. See picture below.



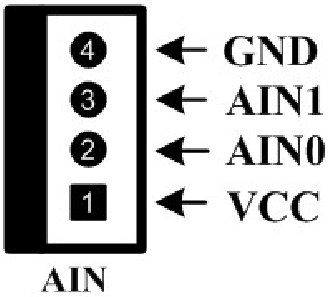
- Number 11 is RS422/485 Connector



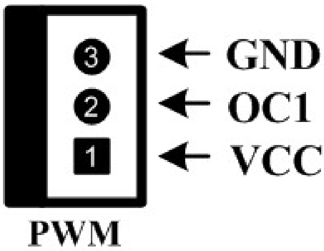
- Number 12 is ICP



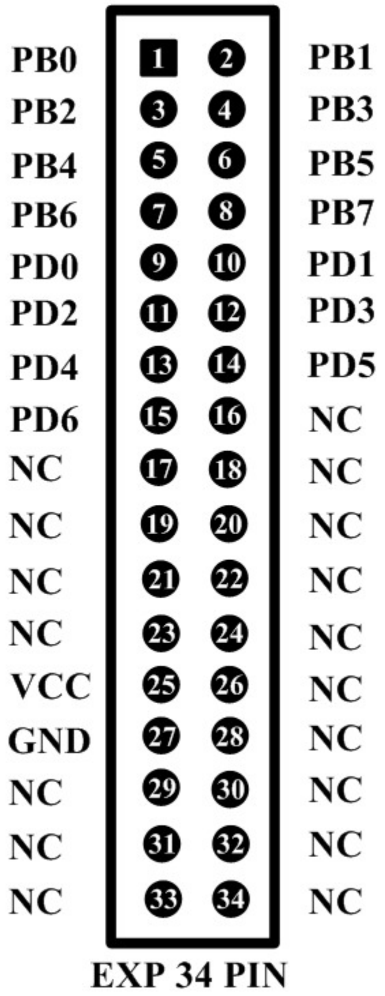
- Number 13 is AIN (Analog input)



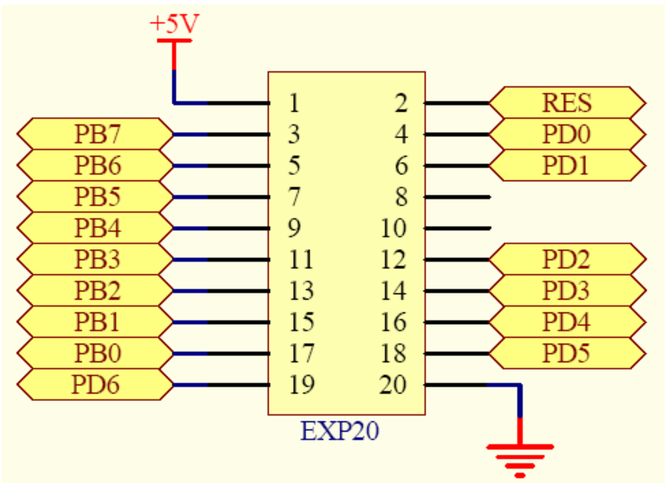
- Number 14 is PWM



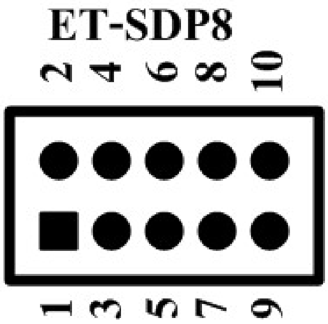
-Number 15 is EXP I/O PORT 34 PIN See diagram in picture below.



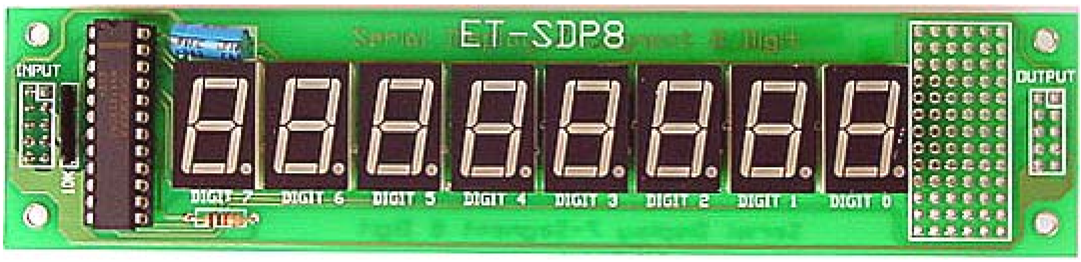
-Number 16 is EXP20 port See diagram in picture below.



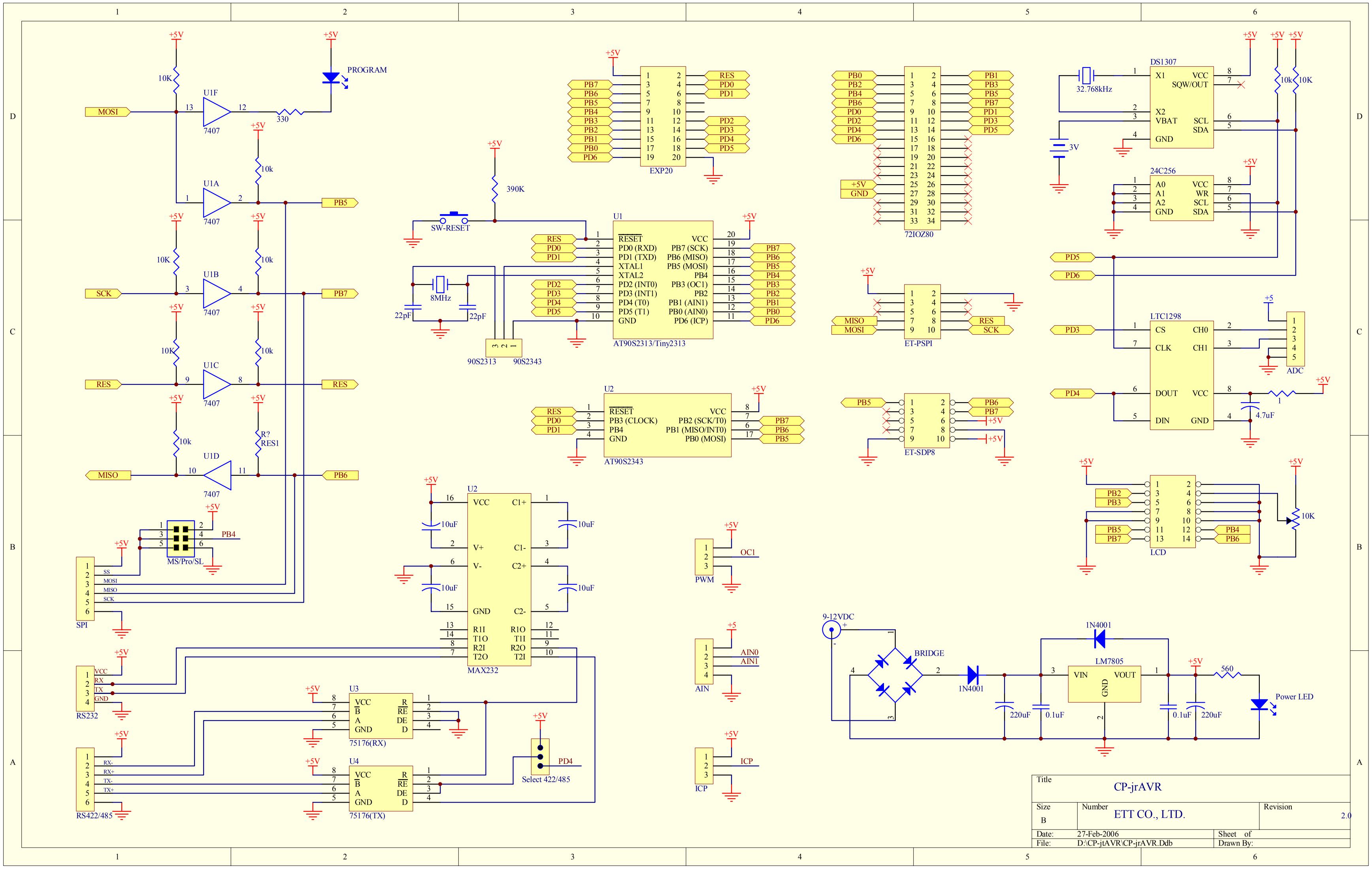
-Number 18 is ET-SDP8 The connector for ET-SDP8 board. (Option)



The picture of ET-SDP8 Display board



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CP-jrAVR
ETT CO., LTD.
Size B
Revision 2.0
Date: 27-Feb-2006
File: D:\CP-jrAVR\CP-jrAVR.Ddb
Sheet of
Drawn By:
DS1307
24C256
LTC1298
ADC
LCD
EXP20
72IOZ80
ET-PSPI
ET-SDP8
U1 AT90S2313/Tiny2313
U2 AT90S2343
U2 MAX232
U3 75176(RX)
U4 75176(TX)
LM7805
BRIDGE
1N4001
9-12VDC
Power LED
PROGRAM
SW-RESET
MS/Pro/SL
Select 422/485
SPI
RS232
RS422/485
PWM
AIN
ICP
7407